



JAW-DAC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
ATTENTION: HONORABLE
Commissioner for Patents
P.O. Box 1450

In re the Patent of: **HATO, Tsunehiro, et al.** P.T.O. Confirmation No.: **6752**

Patent No. **7,300,909** Issued: **November 27, 2007**

For: **SUPERCONDUCTING CIRCUIT**

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Mail Stop DAC
December 10, 2007

Sir:

The undersigned requests that a Certificate of Correction be issued for the above-identified patent as indicated on the attached Form PTO-1050.

This request is being made in order to correct item [73]. It is incorrect in that the Assignee only lists "Fujitsu Limited, Kawasaki (JP)" which should be --Fujitsu Limited, Kawasaki (JP), and International Superconductivity Technology Center, The Juridical Foundation, Tokyo (JP), as they are shown on the Notice of Recordation of Assignment Document dated October 21, 2004 and Assignment (copies attached). It is respectfully submitted that no new matter has been added.

Since this error was made by our office, we are enclosing the fee of \$100.00. If any additional fees are required, please charge our Deposit Account No. 01-2340.

Respectfully submitted,

KRATZ, QUINTOS & HANSON, LLP

Mel R. Quintos
Attorney for Applicant
Reg. No. 31,898

12/11/2007 AWONDAF1 00000055 012340 7300909

01 FC:1811 100.00 DA

MRQ/lrj

Atty. Docket No. **040156**
1420 K Street, N.W.; Suite 400
Washington, D.C. 20005
(202) 659-2930



23850

PATENT & TRADEMARK OFFICE

Enclosure: Petition Under 37 CFR §1.183 and Form PTO-1050



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
ATTENTION: HONORABLE
COMMISSIONER FOR PATENTS

In re the Patent of: **HATO, Tsunehiro, et al.**

P.T.O. Confirmation No.: **6752**

Patent No. **7,300,909**

Issued: **November 27, 2007**

For. **SUPERCONDUCTING CIRCUIT**

PETITION UNDER 37 CFR §1.183

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Mail Stop DAC
December 10, 2007

Sir:

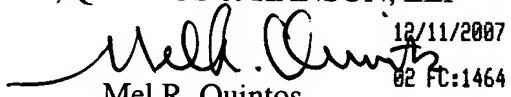
It is requested that a Certificate of Correction be issued to correct the designation of the assignee's name and address in the above-identified patent.

This request is being made in order to correct item [73]. It is incorrect in that the assignee, "**Fujitsu Limited, Kawasaki (JP)**", was incorrectly listed as the only Assignee on the transmittal form PTOL-85B when paying the issue fee. Please correct the assignees to **-Fujitsu Limited, Kawasaki (JP), and International Superconductivity Technology Center, The Juridical Foundation, Tokyo, (JP)**-- as is shown in the assignment records, reel **015267**, frame **0212**. The error to be corrected was a inadvertent clerical error that was made when paying the issue fee. It is respectfully submitted that no new matter has been added.

A proposed Certificate of Correction is submitted herewith along with authorization for the Commissioner to charge our Deposit Account in the amount of \$230.00; \$100.00 fee for the Certificate of Correction and \$130.00 fee for filing this Petition. If any other fees are due, please charge the same to our Deposit Account No. 01-2340.

Respectfully submitted,

KRATZ, QUINTOS & HANSON, LLP


Mel R. Quintos

12/11/2007 AWONDAF1 00000055 012340 7300909
82 FC:1464 130.00 DA

Attorney for Applicants
Reg. No. 31,898

MRQ/lrj

Atty. Docket No. **040156**
1420 K Street, N.W., Suite 400
Washington, D.C. 20005
(202) 659-2930



23850

PATENT & TRADEMARK OFFICE

Enclosures: PTO-1050; 1st page Letters Patent No. 7,300,909; Notice of Recordation of Assignment dated 10/21/04 and Assignment

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.: **7,300,909**
DATED : **November 27, 2007**
INVENTOR(S): **HATO, Tsunehiro, et al.**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Item (73) Assignee

"Fujitsu Limited, Kawasaki (JP)" should be –Fujitsu Limited, Kawasaki (JP), and International Superconductivity Technology Center, The Juridical Foundation, Tokyo (JP). --

MAILING ADDRESS OF SENDER:
KRATZ, QUINTOS & HANSON, LLP
1420 K Street, NW, Suite 400
Washington, DC 20005

Patent No.:**7,300,909**

No. of add'l copies
@ 30¢ per page
→ _____

Docket No. 040156

Armstrong, Kratz, Quintos, Hanson & Brooks, LLP

U.S. ASSIGNMENT

(Insert ASSIGNEE's Name(s) Address(es))

- ① FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan, and
- ② INTERNATIONAL SUPERCONDUCTIVITY TECHNOLOGY CENTER, THE JURIDICAL FOUNDATION, Eishin Kaihatsu Bldg. 6F, 5-34-3, Shinbashi, Minato-ku, Tokyo 105-0004 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled:

(Title of Invention)

SUPERCONDUCTING CIRCUIT

(*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

March 26, 2004.
* filed on 10/809,919

(Armstrong, Kratz, Quintos, Hanson & Brooks, LLP is hereby authorized to insert the serial code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

Tsunehiro Hato

(Signature)

Tsunehiro HATO

(Type Name)

May 28, 2004

(Date)

Masahiro Horibe

(Signature)

Masahiro HORIBE

(Type Name)

May 20, 2004

(Date)

Keiichi Tanabe

(Signature)

Keiichi TANABE

(Type Name)

May 31, 2004

(Date)

(Signature)

(Type Name)

(Date)

(Signature)

(Type Name)

(Date)

(Signature)

(Type Name)

(Date)



US007300909B2

(12) United States Patent
Hato et al.(10) Patent No.: US 7,300,909 B2
(45) Date of Patent: Nov. 27, 2007

(54) SUPERCONDUCTING CIRCUIT

(75) Inventors: Tsunehiro Hato, Kawasaki (JP);
Masahiro Horibe, Tsukuba (JP);
Keiichi Tanabe, Mito (JP)(73) Assignee: Fujitsu Limited, Kawasaki (JP), and
INTERNATIONAL SUPERCONDUCTIVITY TECHNOLOGY CENTER, THE JURIDICAL FOUNDATION, TOKYO (JP)
(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 17 days.

(21) Appl. No.: 10/809,919

(22) Filed: Mar. 26, 2004

(65) Prior Publication Data

US 2005/0029512 A1 Feb. 10, 2005

(30) Foreign Application Priority Data

Mar. 28, 2003 (JP) 2003-092545

(51) Int. Cl.

H01B 1/00 (2006.01)

(52) U.S. Cl. 505/234; 505/100

(58) Field of Classification Search 505/234,
505/100

See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

2004/0077504 A1 * 4/2004 Adachi et al. 505/234

FOREIGN PATENT DOCUMENTS

JP 2000-353831 12/2000

* cited by examiner

Primary Examiner—Long Pham

(74) Attorney, Agent, or Firm—Kratz, Quintos & Hanson,
LLP

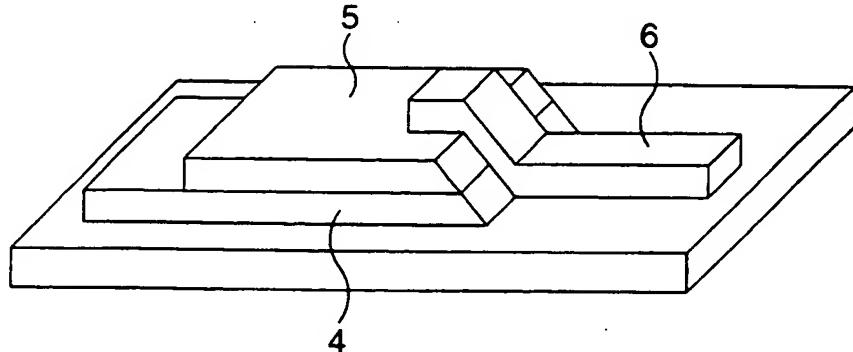
(57)

ABSTRACT

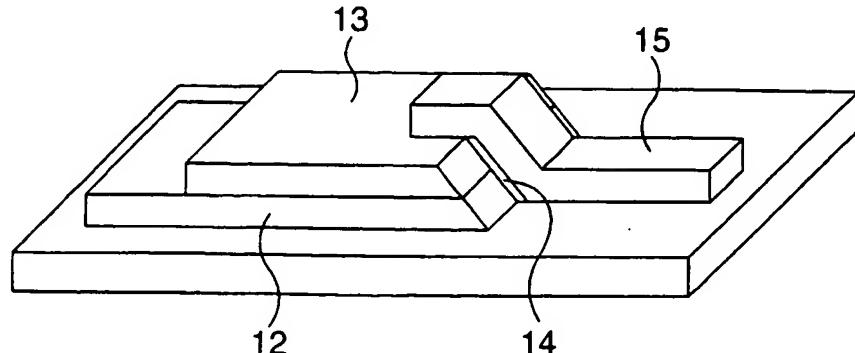
A first Josephson junction in a Single Flux Quantum circuit (SFQ circuit) and a second Josephson junction in an interface circuit (latch driver circuit) are formed with junction materials different from each other, and the junction materials are selected so that the hysteresis of the first Josephson junction in a current-voltage characteristic is smaller than the hysteresis of the second Josephson junction in a current-voltage characteristic.

10 Claims, 8 Drawing Sheets

<JUNCTION FOR SFQ CIRCUIT>



<JUNCTION FOR LATCH DRIVER CIRCUIT>



040156



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



OCTOBER 21, 2004

PTAS

800014303A

ARMSTRONG, KRATZ, QUINTOS, HANSON & BROO
1725 K STREET, NW
SUITE 1000
WASHINGTON, DC 20006

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/19/2004

REEL/FRAME: 015267/0212

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 040156

ASSIGNEE:

HATO, TSUNEHIRO

DOC DATE: 05/28/2004

ASSIGNEE:

HORIBE, MASAHIRO

DOC DATE: 05/20/2004

ASSIGNEE:

TANABE, KEIICHI

DOC DATE: 05/31/2004

ASSIGNEE:

① FUJITSU LIMITED
1-1, KAMIKODANAKA 4-CHOME,
NAKAHARA-KU,
KAWASAKI-SHI, KANAGAWA, JAPAN

211-8588

DOCKETED

DATE

See

10/22/04

015267/0212 PAGE 2

ASSIGNEE:

(2) INTERNATIONAL SUPERCONDUCTIVITY
TECHNOLOGY CENTER, THE JURIDICAL
FOUNDATION
EISHIN KAIHATSU BLDG. 6F, 5-34-3,
SHINBASHI, MINATO-KU,
TOKYO, JAPAN 105-0004

SERIAL NUMBER: 10809919

FILING DATE: 03/26/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: SUPERCONDUCTING CIRCUIT

LENELL MACKALL, SUPERVISOR
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

PATENT ASSIGNMENT

Electronic Version v08

Stylesheet Version v02

10/19/2004
800014303

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT OF ASSIGNOR'S INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
Tsunehiro HATO	2004-05-28
Masahiro HORIBE	2004-05-20
Keiichi TANABE	2004-05-31

RECEIVING PARTY DATA

Name	Street Address	Internal Address	City	State/Country	Postal Code
FUJITSU LIMITED	1-1, Kamikodanaka 4-chome, Nakahara-ku,		Kawasaki-shi, Kanagawa	JAPAN	211-8588
INTERNATIONAL SUPERCONDUCTIVITY TECHNOLOGY CENTER, THE JURIDICAL FOUNDATION	Eishin Kaihatsu Bldg. 6F, 5-34-3, Shinbashi, Minato-ku,		Tokyo	JAPAN	105-0004

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number	10809919

CORRESPONDENCE DATA

FAX NUMBER: 2028870357

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.

CUSTOMER NUMBER: 023850

CH \$40.00 012340 10809919

NAME OF PERSON SIGNING:	Mel R. Quintos
DATE SIGNED:	2004-10-19
Total Attachments: 1 source=A040156.tif	